Pham 347762


1: TrixiePhattel_81
2: Kinny_86 + 1
3: Argan_78
4: Kinny_82 + 2
5: KevinMinion_80
6: Tenney120_81
7: Navi1117_83 + 1
8: Mardi_83
9: Navi1117_87
10: TrixiePhattel_84
11: Renaldo_86
12: Phaila_82
13: Argan_81
14: Renaldo_88
15: Uzumaki_82
16: Barbonzobean_83
17: Remlit_87
18: Muglass_80
19: Mardi_80
20: Muglass_85
21: KevinMinion_76
22: Zeina_82
23: PoeMe_82
24: Stardrop_83
25: PoeMe_80 + 1
26: Leathea_82
27: Uzumaki_78
28: GantcherGoblin_81
29: Stardrop_79
30: Lewando_81
31: GantcherGoblin_77
32: Tenney120_79
33: BlackHoleSun_81
34: Elver_229 + 6

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 347762 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347762 has 45 members, 12 are drafts.

Phages represented in each track:
- Track 1 : TrixiePhattel_81
- Track 2 : Kinny_86, Biscute_83
- Track 3 : Argan_78
- Track 4 : Kinny_82, Biscute_79, BarbieDoll_83
- Track 5 : KevinMinion_80
- Track 6 : Tenney120_81
- Track 7 : Navi1117_83, Phaila_79
- Track 8 : Mardi_83
- Track 9 : Navi1117_87
- Track 10 : TrixiePhattel_84
- Track 11 : Renaldo_86
- Track 12 : Phaila_82
- Track 13 : Argan_81
- Track 14 : Renaldo_88
- Track 15 : Uzumaki_82
- Track 16 : Barbonzobean_83
- Track 17 : Remlit_87
- Track 18 : Muglass_80
- Track 19 : Mardi_80
- Track 20 : Muglass_85
- Track 21 : KevinMinion_76
- Track 22 : Zeina_82
- Track 23 : PoeMe_82
- Track 24 : Stardrop_83
- Track 25 : PoeMe_80, Altjira_82
- Track 26 : Leathea_82
- Track 27 : Uzumaki_78
- Track 28 : GantcherGoblin_81
- Track 29 : Stardrop_79
- Track 30 : Lewando_81
- Track 31 : GantcherGoblin_77
- Track 32 : Tenney120_79
- Track 33 : BlackHoleSun_81
- Track 34 : Elver_229, Kureo_227, Marianna39_229, JeNeSaisPas_232, Gandionco_229, Qui_230, Paella_231

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 12, it was called in 20 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altjira_82, Argan_78, BarbieDoll_83, Barbonzobean_83, Biscute_79, BlackHoleSun_81, Elver_229, Gandionco_229, GantcherGoblin_77, JeNeSaisPas_232, KevinMinion_76, Kinny_82, Kureo_227, Leathea_82, Lewando_81, Mardi_80, Marianna39_229, Muglass_80, Navi1117_83, Paella_231, Phaila_79, PoeMe_80, Qui_230, Remlit_87, Renaldo_86, Stardrop_79, Tenney120_81, TrixiePhattel_84, Uzumaki_78, Zeina_82,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
• Argan_81, Biscute_83, GantcherGoblin_81, KevinMinion_80, Kinny_86, Mardi_83, Muglass_85, Navi1117_87, Phaila_82, PoeMe_82, Renaldo_88, Stardrop_83, Tenney120_79, TrixiePhattel_81, Uzumaki_82,

Summary by start number:

Start 10:
• Found in 13 of 45 (28.9%) of genes in pham
• Manual Annotations of this start: 11 of 33
• Called 92.3% of time when present
• Phage (with cluster) where this start called: Argan_81 (AU6), Biscute_83 (AU6), GantcherGoblin_81 (AU6), KevinMinion_80 (AU6), Kinny_86 (AU6), Muglass_85 (AU6), Navi1117_87 (AU6), Phaila_82 (AU6), PoeMe_82 (AU6), Renaldo_88 (AU6), Stardrop_83 (AU6), Uzumaki_82 (AU6),

Start 11:
• Found in 2 of 45 (4.4%) of genes in pham
• Manual Annotations of this start: 2 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tenney120_79 (AU6), TrixiePhattel_81 (AU6),

Start 12:
• Found in 30 of 45 (66.7%) of genes in pham
• Manual Annotations of this start: 20 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altjira_82 (AU6), Argan_78 (AU6), BarbieDoll_83 (AU6), Barbonzobean_83 (AU6), Biscute_79 (AU6), BlackHoleSun_81 (AU6), Elver_229 (FK), Gandionco_229 (FK), GantcherGoblin_77 (AU6), JeNeSaisPas_232 (FK), KevinMinion_76 (AU6), Kinny_82 (AU6), Kureo_227 (FK), Leathea_82 (AU6), Lewando_81 (AU6), Mardi_80 (AU6), Marianna39_229 (FK), Muglass_80 (AU6), Navi1117_83 (AU6), Paella_231 (FK), Phaila_79 (AU6), PoeMe_80 (AU6), Qui_230 (FK), Remlit_87 (AU6), Renaldo_86 (AU6), Stardrop_79 (AU6), Tenney120_81 (AU6), TrixiePhattel_84 (AU6), Uzumaki_78 (AU6), Zeina_82 (AU6),

Start 13:
• Found in 1 of 45 (2.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mardi_83 (AU6),

Summary by clusters:

There are 2 clusters represented in this pham: FK, AU6,

Info for manual annotations of cluster AU6:
•Start number 10 was manually annotated 11 times for cluster AU6.
•Start number 11 was manually annotated 2 times for cluster AU6.
•Start number 12 was manually annotated 16 times for cluster AU6.

Info for manual annotations of cluster FK:
•Start number 12 was manually annotated 4 times for cluster FK.

Gene Information:

Gene: Altjira_82 Start: 48879, Stop: 49235, Start Num: 12
Candidate Starts for Altjira_82:
(3, 48804), (6, 48846), (Start: 12 @48879 has 20 MA's), (19, 48933), (38, 49116), (44, 49131), (49, 49152),

Gene: Argan_78 Start: 47443, Stop: 47799, Start Num: 12
Candidate Starts for Argan_78:
(3, 47368), (6, 47410), (Start: 12 @47443 has 20 MA's), (16, 47482), (28, 47578), (38, 47680), (44, 47695), (49, 47716),

Gene: Argan_81 Start: 48463, Stop: 48813, Start Num: 10
Candidate Starts for Argan_81:
(Start: 10 @48463 has 11 MA's), (18, 48520), (23, 48550), (29, 48589), (30, 48592), (46, 48721), (47, 48724), (48, 48727), (56, 48784), (57, 48802),

Gene: BarbieDoll_83 Start: 49031, Stop: 49393, Start Num: 12
Candidate Starts for BarbieDoll_83:
(1, 48926), (2, 48932), (5, 48989), (7, 49001), (Start: 12 @49031 has 20 MA's), (16, 49070), (18, 49082),

Gene: Barbonzobean_83 Start: 49539, Stop: 49898, Start Num: 12
Candidate Starts for Barbonzobean_83:
(7, 49509), (Start: 12 @49539 has 20 MA's), (18, 49590), (28, 49674), (38, 49779), (41, 49785), (44, 49794), (55, 49854),

Gene: Biscute_83 Start: 49923, Stop: 50273, Start Num: 10
Candidate Starts for Biscute_83:
(Start: 10 @49923 has 11 MA's), (14, 49959), (18, 49980), (30, 50052), (34, 50085), (39, 50154), (42, 50163), (43, 50166),

Gene: Biscute_79 Start: 48683, Stop: 49045, Start Num: 12
Candidate Starts for Biscute_79:
(1, 48578), (2, 48584), (5, 48641), (7, 48653), (Start: 12 @48683 has 20 MA's), (16, 48722), (18, 48734),

Gene: BlackHoleSun_81 Start: 48205, Stop: 48561, Start Num: 12
Candidate Starts for BlackHoleSun_81:
(3, 48130), (6, 48172), (Start: 12 @48205 has 20 MA's), (16, 48244), (38, 48442), (44, 48457),

Gene: Elver_229 Start: 104016, Stop: 104375, Start Num: 12
Candidate Starts for Elver_229:
(Start: 12 @104016 has 20 MA's), (18, 104067), (21, 104088), (23, 104103), (27, 104136), (49, 104289), (50, 104295), (52, 104313), (58, 104367),

Gene: Gandionco_229 Start: 103763, Stop: 104122, Start Num: 12
Candidate Starts for Gandionco_229:
(Start: 12 @103763 has 20 MA's), (18, 103814), (21, 103835), (23, 103850), (27, 103883), (49, 104036), (50, 104042), (52, 104060), (58, 104114),

Gene: GantcherGoblin_81 Start: 48864, Stop: 49214, Start Num: 10
Candidate Starts for GantcherGoblin_81:
(Start: 10 @48864 has 11 MA's), (18, 48921), (23, 48951), (36, 49062), (43, 49107), (47, 49125), (56, 49185), (57, 49203),

Gene: GantcherGoblin_77 Start: 47604, Stop: 47960, Start Num: 12
Candidate Starts for GantcherGoblin_77:
(3, 47529), (6, 47571), (Start: 12 @47604 has 20 MA's), (16, 47643), (28, 47739), (38, 47841), (44, 47856),

Gene: JeNeSaisPas_232 Start: 104089, Stop: 104448, Start Num: 12
Candidate Starts for JeNeSaisPas_232:
(Start: 12 @104089 has 20 MA's), (18, 104140), (21, 104161), (23, 104176), (27, 104209), (49, 104362), (50, 104368), (52, 104386), (58, 104440),

Gene: KevinMinion_80 Start: 49681, Stop: 50031, Start Num: 10
Candidate Starts for KevinMinion_80:
(Start: 10 @49681 has 11 MA's), (18, 49738), (23, 49768), (36, 49879), (43, 49924), (47, 49942), (56, 50002), (57, 50020),

Gene: KevinMinion_76 Start: 48394, Stop: 48750, Start Num: 12
Candidate Starts for KevinMinion_76:
(3, 48319), (6, 48361), (Start: 12 @48394 has 20 MA's), (16, 48433), (28, 48529), (38, 48631), (44, 48646), (49, 48667),

Gene: Kinny_86 Start: 50750, Stop: 51100, Start Num: 10
Candidate Starts for Kinny_86:
(Start: 10 @50750 has 11 MA's), (14, 50786), (18, 50807), (30, 50879), (34, 50912), (39, 50981), (42, 50990), (43, 50993),

Gene: Kinny_82 Start: 49510, Stop: 49872, Start Num: 12
Candidate Starts for Kinny_82:
(1, 49405), (2, 49411), (5, 49468), (7, 49480), (Start: 12 @49510 has 20 MA's), (16, 49549), (18, 49561),

Gene: Kureo_227 Start: 102670, Stop: 103029, Start Num: 12
Candidate Starts for Kureo_227:
(Start: 12 @102670 has 20 MA's), (18, 102721), (21, 102742), (23, 102757), (27, 102790), (49, 102943), (50, 102949), (52, 102967), (58, 103021),

Gene: Leathea_82 Start: 47629, Stop: 47991, Start Num: 12
Candidate Starts for Leathea_82:
(5, 47587), (7, 47599), (Start: 12 @47629 has 20 MA's), (16, 47668), (20, 47686), (22, 47704), (45, 47890),

Gene: Lewando_81 Start: 48819, Stop: 49181, Start Num: 12
Candidate Starts for Lewando_81:
(1, 48714), (2, 48720), (4, 48756), (5, 48777), (7, 48789), (Start: 12 @48819 has 20 MA's), (26, 48942),

Gene: Mardi_83 Start: 49278, Stop: 49619, Start Num: 13
Candidate Starts for Mardi_83:
(Start: 10 @49269 has 11 MA's), (13, 49278), (18, 49326), (23, 49356), (29, 49395), (30, 49398), (56, 49590), (57, 49608),

Gene: Mardi_80 Start: 48240, Stop: 48602, Start Num: 12
Candidate Starts for Mardi_80:
(9, 48228), (Start: 12 @48240 has 20 MA's), (16, 48279), (28, 48375),

Gene: Marianna39_229 Start: 104366, Stop: 104725, Start Num: 12
Candidate Starts for Marianna39_229:
(Start: 12 @104366 has 20 MA's), (18, 104417), (21, 104438), (23, 104453), (27, 104486), (49, 104639), (50, 104645), (52, 104663), (58, 104717),

Gene: Muglass_80 Start: 48587, Stop: 48949, Start Num: 12
Candidate Starts for Muglass_80:
(1, 48482), (2, 48488), (5, 48545), (7, 48557), (Start: 12 @48587 has 20 MA's), (18, 48638), (26, 48710),

Gene: Muglass_85 Start: 50162, Stop: 50512, Start Num: 10
Candidate Starts for Muglass_85:
(Start: 10 @50162 has 11 MA's), (15, 50204), (18, 50219), (23, 50249), (24, 50255), (34, 50324), (39, 50393), (42, 50402), (43, 50405),

Gene: Navi1117_83 Start: 49150, Stop: 49506, Start Num: 12
Candidate Starts for Navi1117_83:
(3, 49075), (6, 49117), (Start: 12 @49150 has 20 MA's), (16, 49189), (18, 49201), (38, 49387), (44, 49402), (49, 49423),

Gene: Navi1117_87 Start: 50422, Stop: 50778, Start Num: 10
Candidate Starts for Navi1117_87:
(Start: 10 @50422 has 11 MA's), (18, 50479), (23, 50509), (29, 50548), (30, 50551), (32, 50563), (56, 50743), (57, 50761),

Gene: Paella_231 Start: 105153, Stop: 105512, Start Num: 12
Candidate Starts for Paella_231:
(Start: 12 @105153 has 20 MA's), (18, 105204), (21, 105225), (23, 105240), (27, 105273), (49, 105426), (50, 105432), (52, 105450), (58, 105504),

Gene: Phaila_82 Start: 48661, Stop: 49011, Start Num: 10
Candidate Starts for Phaila_82:
(Start: 10 @48661 has 11 MA's), (23, 48748), (29, 48787), (30, 48790), (32, 48802), (33, 48808), (48, 48925), (51, 48949), (56, 48982), (57, 49000),

Gene: Phaila_79 Start: 47624, Stop: 47980, Start Num: 12
Candidate Starts for Phaila_79:
(3, 47549), (6, 47591), (Start: 12 @47624 has 20 MA's), (16, 47663), (18, 47675), (38, 47861), (44, 47876), (49, 47897),

Gene: PoeMe_82 Start: 49261, Stop: 49611, Start Num: 10
Candidate Starts for PoeMe_82:
(Start: 10 @49261 has 11 MA's), (18, 49318), (23, 49348), (29, 49387), (30, 49390), (32, 49402), (56, 49582), (57, 49600),

Gene: PoeMe_80 Start: 48579, Stop: 48935, Start Num: 12
Candidate Starts for PoeMe_80:
(3, 48504), (6, 48546), (Start: 12 @48579 has 20 MA's), (19, 48633), (38, 48816), (44, 48831), (49, 48852),

Gene: Qui_230 Start: 105141, Stop: 105500, Start Num: 12
Candidate Starts for Qui_230:
(Start: 12 @105141 has 20 MA's), (18, 105192), (21, 105213), (23, 105228), (27, 105261), (49, 105414), (50, 105420), (52, 105438), (58, 105492),

Gene: Remlit_87 Start: 48546, Stop: 48902, Start Num: 12
Candidate Starts for Remlit_87:
(8, 48522), (Start: 12 @48546 has 20 MA's), (16, 48585), (19, 48600), (28, 48681), (44, 48798),

Gene: Renaldo_86 Start: 49031, Stop: 49390, Start Num: 12
Candidate Starts for Renaldo_86:
(7, 49001), (Start: 12 @49031 has 20 MA's), (18, 49082), (26, 49154), (28, 49166), (38, 49271), (44, 49286), (55, 49346),

Gene: Renaldo_88 Start: 49716, Stop: 50066, Start Num: 10
Candidate Starts for Renaldo_88:
(Start: 10 @49716 has 11 MA's), (23, 49803), (25, 49824), (29, 49842), (30, 49845), (43, 49959), (47, 49977), (48, 49980), (56, 50037),

Gene: Stardrop_83 Start: 49837, Stop: 50187, Start Num: 10
Candidate Starts for Stardrop_83:
(Start: 10 @49837 has 11 MA's), (18, 49894), (23, 49924), (43, 50080), (47, 50098), (56, 50158), (57, 50176),

Gene: Stardrop_79 Start: 48556, Stop: 48912, Start Num: 12
Candidate Starts for Stardrop_79:
(3, 48481), (6, 48523), (Start: 12 @48556 has 20 MA's), (16, 48595), (18, 48607), (38, 48793), (44, 48808),

Gene: Tenney120_81 Start: 48641, Stop: 48997, Start Num: 12
Candidate Starts for Tenney120_81:
(3, 48566), (6, 48608), (Start: 12 @48641 has 20 MA's), (38, 48878), (44, 48893),

Gene: Tenney120_79 Start: 48097, Stop: 48450, Start Num: 11
Candidate Starts for Tenney120_79:
(Start: 11 @48097 has 2 MA's), (16, 48139), (17, 48142), (31, 48232), (36, 48292), (37, 48301), (54, 48394), (55, 48400),

Gene: TrixiePhattel_81 Start: 47965, Stop: 48318, Start Num: 11
Candidate Starts for TrixiePhattel_81:
(Start: 11 @47965 has 2 MA's), (36, 48160), (40, 48196), (47, 48223), (53, 48256),

Gene: TrixiePhattel_84 Start: 48693, Stop: 49052, Start Num: 12
Candidate Starts for TrixiePhattel_84:
(4, 48633), (7, 48666), (Start: 12 @48693 has 20 MA's), (35, 48897), (50, 48975),

Gene: Uzumaki_82 Start: 48832, Stop: 49182, Start Num: 10
Candidate Starts for Uzumaki_82:
(Start: 10 @48832 has 11 MA's), (18, 48889), (23, 48919), (29, 48958), (30, 48961), (32, 48973), (36, 49030), (47, 49093), (56, 49153), (57, 49171),

Gene: Uzumaki_78 Start: 47572, Stop: 47928, Start Num: 12
Candidate Starts for Uzumaki_78:
(3, 47503), (8, 47554), (Start: 12 @47572 has 20 MA's), (19, 47626), (38, 47809), (44, 47824), (49, 47845),

Gene: Zeina_82 Start: 48280, Stop: 48642, Start Num: 12
Candidate Starts for Zeina_82:
(1, 48175), (2, 48181), (4, 48217), (5, 48238), (7, 48250), (Start: 12 @48280 has 20 MA's), (16, 48319), (19, 48334), (28, 48415),